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Shusou WADAKA et al.FILING DATE
December 8, 1998GROUP
Unassigned**U. S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION
						YES NO
7/1	61 2 6 9 4 1 0	November 28, 1986	Japan (w/Abstract)			X
	63 1 8 7 0 8	January 26, 1988	Japan (w/Abstract)			X
↓	2 1 8 9 0 1 1	July 25, 1990	Japan (w/Abstract)			X

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

7/1	"Effects of Aluminum Thickness on Temperature Characteristics of Surface Acoustic Wave Devices on the LST-Cut of Quartz," M. Murota et al., The Journal of Institute of Electronics, Information and Communication Engineers, A Vol. J74-A, No. 9, pp. 1359-1365, September 1991.
	"Analysis of Trapped-Energy Resonators and Monolithic Filters by the Equivalent Distributed-Constant Circuits," K. Nakamura et al., The Journal of Institute of Electronics, Information and Communication Engineers, '76/11 Vol. J59-A, No. 11, pp. 985-992
	"Energy-Trapping for Backward-Wave-Mode Thickness-Vibrations by Controlling Piezoelectric Reaction," H. Shimizu et al., The Journal of Institute of Electronics, Information and Communication Engineers, '79/1 Vol. J62-A No. 1, pp. 8-15
	"Equivalent-Network Analyses of Energy-Trapping of Backward-Wave Thickness Vibrations," K. Yamada et al., The Journal of Institute of Electronics, Information and Communication Engineers, '80/6, Vol. J63-A, No. 6, pp. 327-334
	"Optimization of Quartz SAW Resonator Structure with Groove Gratings," Takehiko Uno et al., IEEE Transactions on Sonics and Ultrasonics, Vol. SU-29, No. 6, November 1982, pp. 299-310

EXAMINER

MARK U. BUDD
PRIMARY EXAMINER

DATE CONSIDERED

3-18-04

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